

#21 Vilas Co Lynx Creek Bridge

State of Wisconsin
 Department of Natural Resources
dnr.wi.gov

Motorized Recreation Grant Application

For: (choose all that apply)

Form 8700-159 (R 02/2024)

- ATV/UTV Trail Aid
- Snowmobile Trail Aid

Due Date: April 15

Notice: Completion of this form is required under Wisconsin Statutes 23.09(26) and 23.33. Failure to complete this form will result in denial of financial assistance. Personally identifiable information found on this form is not intended to be used for any other purpose. The Department of Natural Resources (DNR) may provide this information to requesters as required by Wisconsin's Public Records law (ss. 19.31 – 19.39, Wis. Stats.).

Instructions: Applications may combine more than one source of funds. They may be submitted for consideration of traditional ATV, UTV, Snowmobile and Motorized Stewardship funding. Submit one copy of all forms and attachments. See Page 2 for necessary attachments. Send applications to your [Community Services Specialist](#).

DNR Use Only	
Category	Number

Section 1: Applicant Information

Applicant / Organization Name Vilas County Parks and Recreation			Check Recipient: Individual other than authorized individual to act on behalf of the applicant. <input checked="" type="checkbox"/> Select if the same as applicant.		
Individual Authorized to Act on Behalf of Applicant per Resolution Todd Bierman			Check Recipient Name (Name to Appear on Check)		
Title Parks and Recreation Supervisor			Title		
Address 330 Court Street			Address		
City Eagle River	State WI	ZIP Code 54521	City	State	ZIP Code
Telephone Number 715-479-6015		Email Address tobier@vilascountywi.gov			

Section 2: Project Information Required for all Projects

Project Title Lynx Creek Bridge Replacement					Current Funded Miles 499.6	New Miles (if applicable)
County Vilas	Township 43 N	Range 6	Section 12	1/4 1/4 NE	1/4 NE	GPS Coordinates: Lat. _____ Long. _____

Project Description Summary

Vilas County is proposing to remove the current Lynx Creek Bridge and replace it with 2- 4'x20' culverts. this project is on Corridor Trail 6 and is maintained by the Presque Isle/Winchester Sno-Bunnies. The trail is on private property and the club is working on a long term agreement. This trail and bridge has been in the trail system since 1974 and the club has rebuilt it once in 2003. There is no weight rating for this bridge currently. During the bridge inspection, the firm stated that it is undersized for its use. Correspondence and bridge inspection are included in the granr request.

I certify that all maintenance land use agreements are on file.

Estimated Cost

Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
				\$31,550.00		\$31,550.00
Leave Blank – DNR Use Only						

Applicant Certification

Printed Name of Authorized Official Todd Bierman	Official's Title Vilas County Parks and Recreation Supervisor
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As the applicant's authorized official, I certify that, to the best of my knowledge, the information in this application is true and correct.


 Signature of Authorized Official

3/27/2024
 Date Prepared

Appendix A – Required for Bridge Rehab/Replace, New, or Reroute with New Bridge

Bridge Rehab/Replace New Bridge Reroute with new bridge

County Vilas	Township 43 N	Range 6	<input checked="" type="radio"/> E <input type="radio"/> W	Section 12	¼ ¼ NE	¼ NE	GPS Coordinates: Lat. Long.
Water Body Name Lynx Creek				Bridge Name Lynx Creek Bridge		County Inventory Number 1	
Funded Trail Name or Number (SNARS if applicable) Corridor Trail 6				Has this bridge site ever received development or rehabilitation funds in the past? <input type="radio"/> Yes <input checked="" type="radio"/> No Year: _____ \$ _____			
Bridge is located on: <input checked="" type="radio"/> Private property <input type="radio"/> Public property				Old Bridge/Culvert Size 10'x34'			
Landowner Where Bridge is Located Charles Tanis				Telephone Number		Length of Trail Use Agreement (5 year minimum) Perpetual	
Current maximum load <u>Unknown</u> lbs.		Age of Bridge 21		Bridge Material Wood			
Proposed maximum load <u>25,000 +</u> lbs.							
Sponsoring Club Name Presque Isle/Winchester Sno-Bunnies				Club Contact Byron Sybeldon		Telephone Number 262-689-4462	
Do you have your trail bridges posted as to maximum load? <input type="radio"/> Yes <input checked="" type="radio"/> No				What is the maximum load of the other bridges on the system if groomed with this bridge?			
What is the weight of your puller & drag/grading equipment? 22,000				19,000			
What other recreational trail uses are planned for this bridge? None							
If there are other Recreational uses planned, how much of the bridge cost will be paid for by non-snowmobile or non-ATV users?							

- Yes No Have you contacted your local [DNR Water Management Specialist \(WMS\)](#) regarding a permit?
- Yes No Is a permit needed? (Please provide any written correspondence from WMS.)
- Yes No Have you contacted your County Zoning Dept. regarding a floodplain determination?
- Yes No Will an H & H (hydrologic and hydraulic) study be required?

Bridge Project Detailed Description

The project consist of removal and disposal of the current bridge. Erosion control measures will be implemented. Two 4'x20' culverts will be placed into the creek at the crossing. E-mat and rip rap will be installed as well as pit run and a graveled topp course compacted to help reduce any erosion. Side slopes will be seed with grass if needed.

Appendix A (continued)

Summarize Costs in Appropriate Categories:

Bridge Structure

	Quote 1	Quote 2
	<input type="radio"/> Steel <input type="radio"/> Wooden	<input type="radio"/> Steel <input type="radio"/> Wooden
Bridge Dimensions:	_____	_____
Bridge Manufacturer:	<u>Collins Excavating, LLC.</u>	<u>Minocqua Grading, LLC.</u>
Design Weight Load	<u>25,000+</u> lbs.	<u>25,000+</u> lbs.
Cost of Structure:		
1. Engineering	\$ _____	\$ _____
2. Structure	\$ _____	\$ _____
Subtotal	\$ _____	\$ _____

	Quote 1	Quote 2
	<input checked="" type="radio"/> Contractor or <input type="radio"/> Sponsor	<input type="radio"/> Contractor or <input type="radio"/> Sponsor
	Estimate	Estimate
Installation Costs:		
1. Engineering	\$ <u>5,000.00</u>	\$ <u>5,000.00</u>
2. Site Preparation	\$ <u>5,600.00</u>	\$ <u>12,000.00</u>
3. Abutments	\$ _____	\$ _____
4. Pilings/Piers	\$ _____	\$ _____
5. Approaches	\$ _____	\$ _____
6. Riprap	\$ <u>2,100.00</u>	\$ <u>6,300.00</u>
7. Labor	\$ _____	\$ _____
8. Equipment Rental	\$ _____	\$ _____
9. Culverts	\$ <u>5,850.00</u>	\$ <u>8,400.00</u>
10. H & H Study	\$ _____	\$ _____
11. Wetland Delineation	\$ <u>5,000.00</u>	\$ <u>5,000.00</u>
12. Other <u>Bridge Removal</u>	\$ <u>10,000.00</u>	\$ <u>19,000.00</u>
Subtotal	\$ <u>31,550</u>	\$ <u>55,700</u>
Total Cost	\$ <u>31,550</u>	\$ <u>55,700</u>

For the application grant, you must take the lowest of the two quotes.

Entire Deck and Railing Projects Contractor Sponsor Club

Bridge Dimensions:	_____
Design Weight Load	_____ lbs.
1. Materials	\$ _____
2. Labor	\$ _____
Total	\$ _____

Guidelines for Applicant

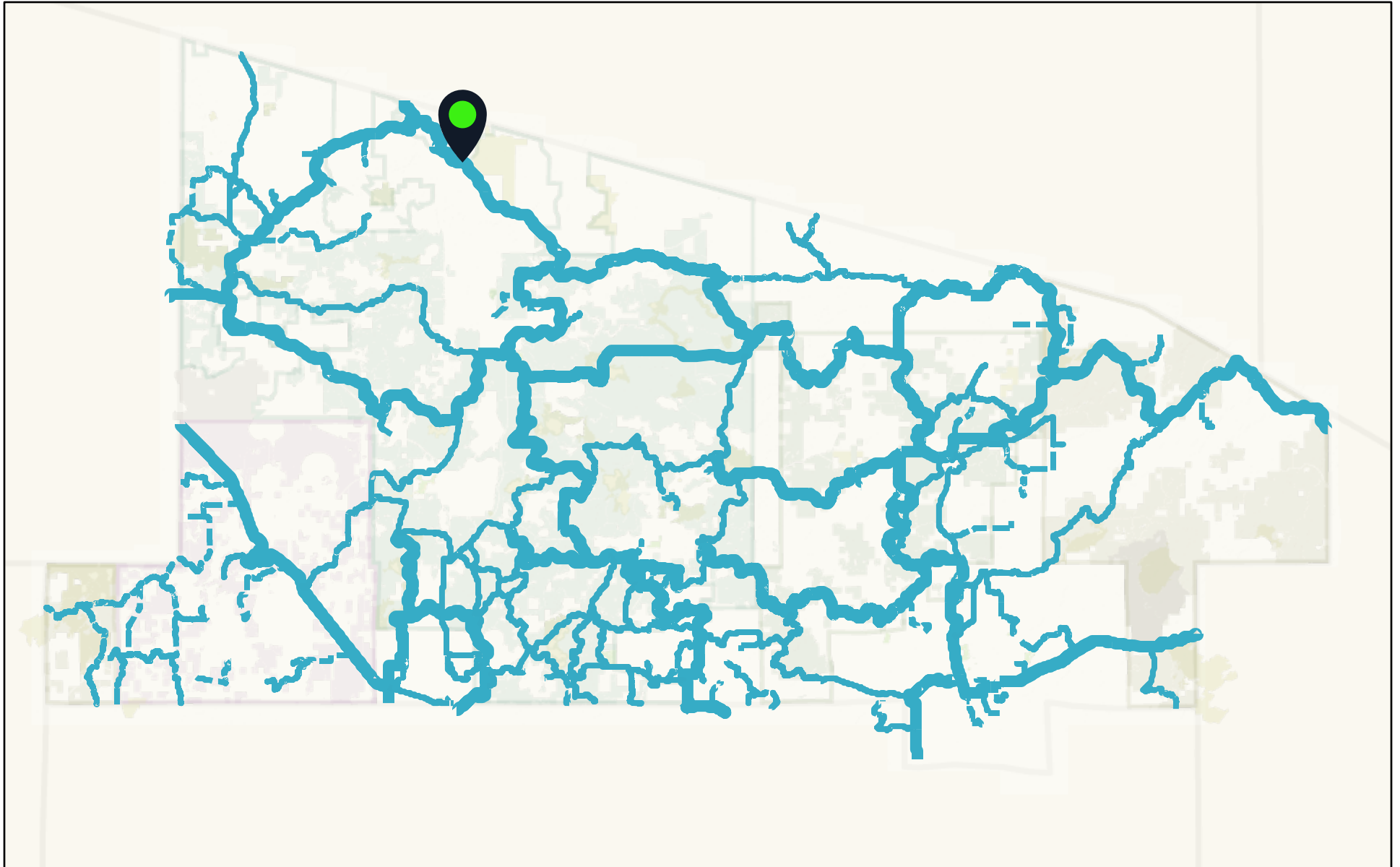
Complete this form for each bridge structure you are submitting a grant application for. Provide any additional documents not requested on application checklist to substantiate your points, including actual deeded easements.

Category		Possible Points	Actual Points
1	Condition of the Structure (max of 10 points)		
	Has a certified bridge inspection report that supports the project & demonstrates need (see example, must provide copy of report by August 1 for 2024 only)	10	10
2	Permits (maximum points 4)		
	Consultation with DNR Water Mgmt Specialist has occurred & permit is likely, if needed	1	1
	Permit in hand / Bridge already permitted	3	
3	Funding (maximum points 2) Are other funds already committed?		
	50% or greater from other funding source(s)?	2	
	11% - 49% from other funding source(s)?	1	
4	Length of Written Easements or Land Use Agreement (max points 5)(ch. 23.09(26)(am)1 WI Stats)		
	On public land (County, State, Federal)	5	
	10 or more year deeded easement on private land or other public land, for <u>all portions of that trail to the nearest road</u> on each side of the bridge	5	
	3-9 year deeded easement on private land or other public land, for <u>all portions of that trail to the nearest road</u> on each side of the bridge	4	
	10 or more year deeded easement on private land or other public land, for <u>just the bridge site</u>	3	
	3-9 deeded easement on private land or other public land, for <u>just the bridge site</u>	2	
	10 or more year land use agreement (LUA, not deeded) on private land or other public land	1	
	3-9 year land use agreement (LUA, not deeded) on private land or other public land	0	0
5	Miles Impacted – How many miles will need to rerouted if the structure is not replaced? Measured from nearest intersection on both sides of the bridge. (max 4 points)		
	Less than 20 miles	1	
	20 miles or more	3	3
	No other snowmobile trails connect. Explain:	4	
DEDUCTIONS			
6	County Active Project Deduction (maximum deduction 1 point) A snowmobile active project is one that has exceeded it's initial grant period.		
	Two or more active projects - deduct 1 point	-1	XXX
GRAND TOTAL			13

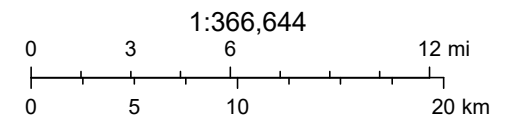
Comments/Notes:

14

Vilas County Snowmobile Trail/Lynx Creek Project



3/27/2024

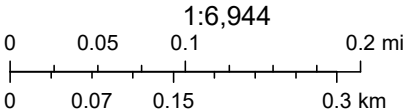


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Lynx Creek Project Aerial

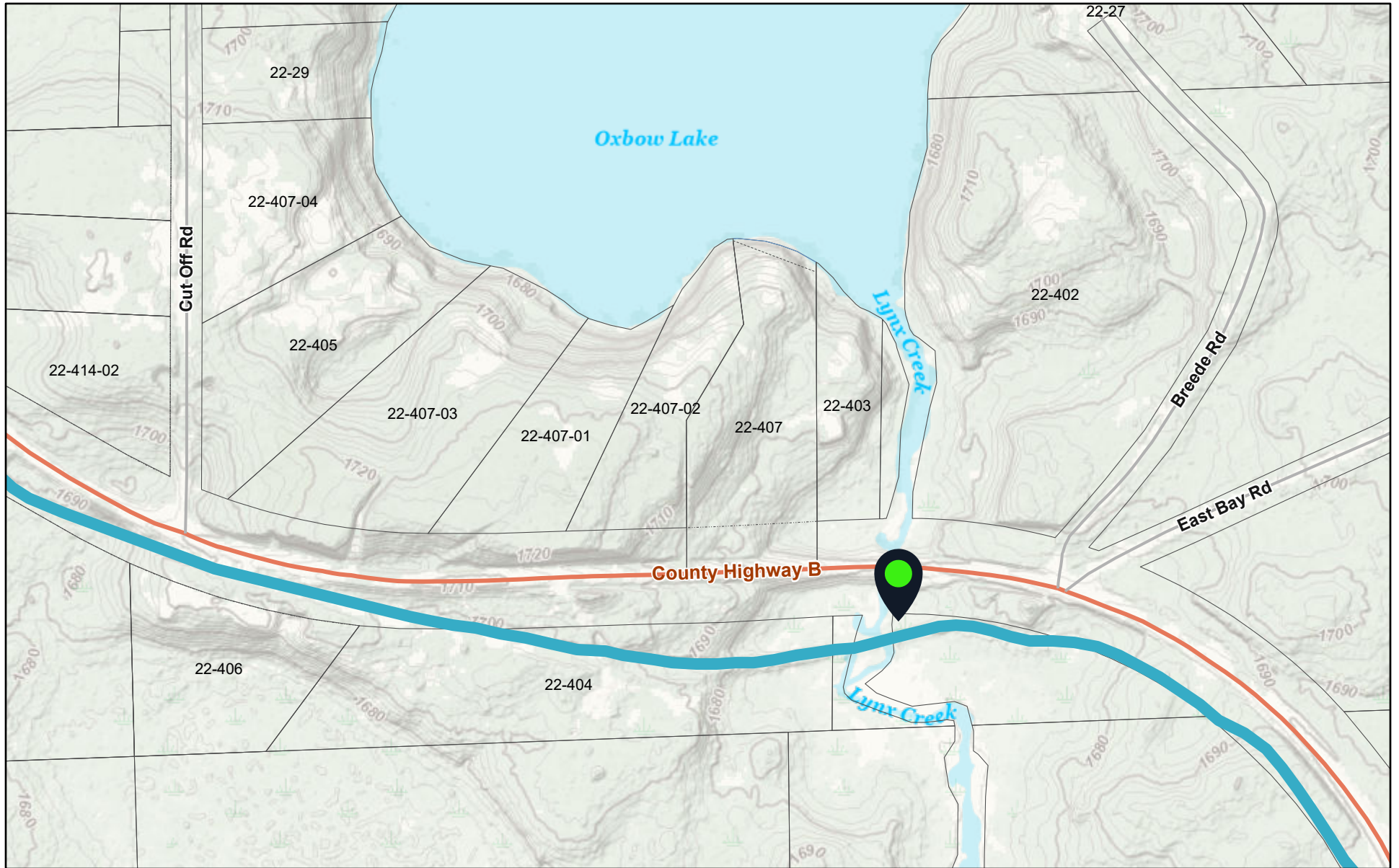


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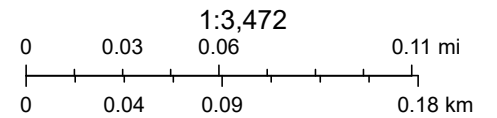


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Lynx Creek Project Topo



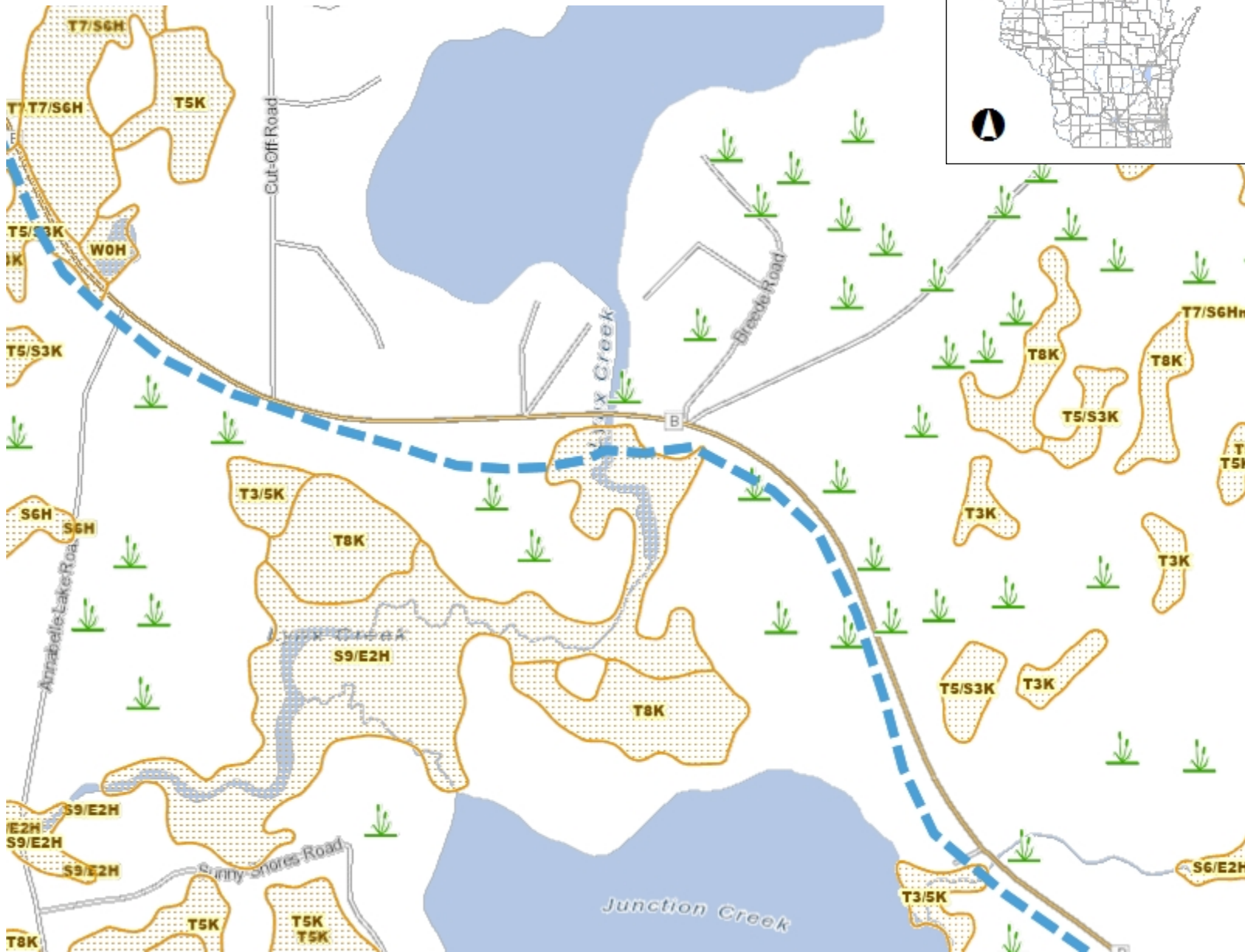
3/27/2024



Created by Vilas County Mapping Department



Lynx Creek Project Wetland



- Legend**
- Lake Class Areas
 - Riverine/ditch Class Areas
 - Wetland Class Areas
 - Wetland Class Points**
 - Dammed pond
 - Excavated pond
 - Filled/draind wetland
 - Wetland too small to delineate
 - Filled excavated pond
 - Filled Points
 - Wetland Class Areas
 - Filled Areas
 - Lake Class Areas
 - Riverine/ditch Class Areas
 - Wetland Class Areas
 - Wetland Class Points**
 - Dammed pond
 - Excavated pond
 - Filled/draind wetland
 - Wetland too small to delineate
 - Filled excavated pond
 - Filled Points
 - Wetland Class Areas
 - Filled Areas
 - Wetland Identifications and Confirmations
 - Municipality
 - State Boundaries
 - County Boundaries
 - Major Roads**
 - Interstate Highway
 - State Highway
 - US Highway
 - County and Local Roads**
 - County HWY



NAD_1983_HARN_Wisconsin_TM

1: 7,920

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/legal/>

Notes



Trail Bridge Inspection

Vilas County

Bridge Name

Vilas 1

Inspected By:

Patrick Hampston, P.E.

2/11/2024

Prepared By

KBIS, LLC





W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

Bridge Inspection Report

General Information

The structure in this report was inspected by certified Wisconsin Department of Transportation Bridge Inspectors. Patrick Hampston, P.E. is a Bridge Inspection Team Leader and NSTM certified inspector.

The bridge was inspected with trail use in mind, using normal vehicle bridge standard to determine the condition of the structure.

All recommendations made in the report are also considering the use of the trail. Trail bridges in general should have a load rating considering all the possible uses of the structure. Even though the bridges may be just for snowmobiles, several types of vehicles may use the structure.

KBIS, recommends as a minimum that bridge owners load rate all the structures in their inventory and post a single ton sign at each bridge. It is a "insurance" policy for the owner if the bridge is damaged by a user that should not be using the structure. Also, grooming/trail equipment is getting large every year, so bridges again should be rated.

Location information/General Description:

Lat and Long: 46.225130, -89684375

Bridge Condition

Length 26', Width 11', Clearance 3-4'

Timber wearing surface, 1 board is loose and coming up. Some areas covered in soil / vegetation. Fair.

Railing and Posts are checked and have some black mold. Fair.

Deck is 4"x8" transverse planks, some decay, widespread green mold on underside. Fair.

3 Steel girders, surface rust, welded splice near east 1/4 point of north girder. Fair.

Concrete footings, scaling present and moderate spalling on west footing. Large crack in east sill. East sill undermined up to 12" deep at south end. NW corner is sinking and putting a twist in the bridge. Poor condition.

Approaches have a 3' x 3' hole in SE corner, 1' x 1' hole in SW corner, approaches are 6-12" higher than bridge. Poor condition.

Object markers, All for have map cracking Fair.

1 bridge ahead sign, West missing, East Good.

Channel has logs / debris under bridge, fair.



W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

Bridge Inspection Report

Report Summary

NBI Ratings: 9-7 Good, 6-5 Fair, 4-3 Poor, 2-1 Critical, 0-Closed

Deck # 6
Superstructure # 6
Substructure # 4
Channel # 5

Overall Condition Poor

Recommendations/Maintenance Items:

- *****High importance-Monitor the sinking NW corner of the abutment.
Clean the sills off.
- *****High importance-Consider a load rating for base line. 3 girder system and the girders appear undersized and insufficient quantity.
Clean the deck.
Brush around bridge.
Fill sinkholes / erosion in approaches.
Replace west bridge ahead sign.
Level footings and add riprap to both abutments.

Signed By:



Digitally signed by Patrick
Hampston
Date: 2024.02.15 18:49:48 -06'00'

Patrick Hampston, P.E.

Bridge Inspection Report

Photo Observations



East bridge ahead sign

Bridge Inspection Report

Photo Observations



East approach

Bridge Inspection Report

Photo Observations



3' x 3' hole in SE corner

Bridge Inspection Report

Photo Observations



Looking upstream

Bridge Inspection Report

Photo Observations



Looking downstream

Bridge Inspection Report

Photo Observations



West approach

Bridge Inspection Report

Photo Observations



1' x 1' hole in SW corner

Bridge Inspection Report

Photo Observations



Wear plank loose and coming up

Bridge Inspection Report

Photo Observations



Elevation view from upstream

Bridge Inspection Report

Photo Observations



West footing

Bridge Inspection Report

Photo Observations



East footing

Bridge Inspection Report

Photo Observations



Typical underside of deck / green mold

Bridge Inspection Report

Photo Observations



Typical underside of superstructure / x bracing at ends plus 1/4 pts

Bridge Inspection Report

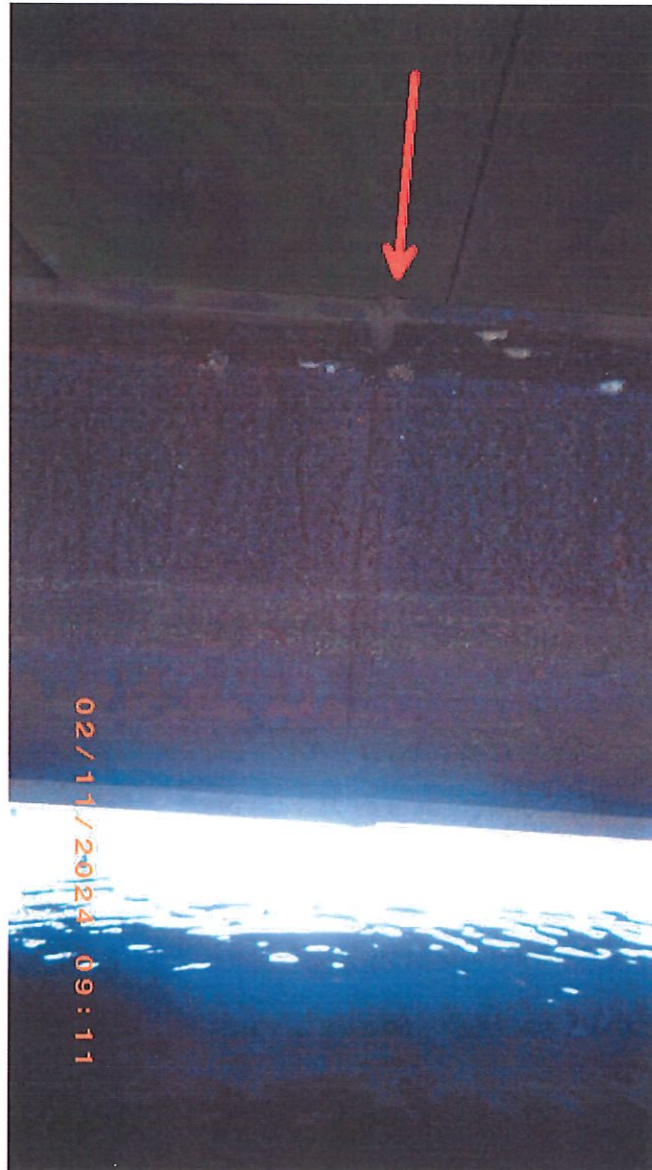
Photo Observations



Typical underside of superstructure / x bracing at ends plus 1/4 pts

Bridge Inspection Report

Photo Observations



Welded splice near east 1/4 pt of north girder

Bridge Inspection Report

Photo Observations



Elevation view from downstream

Bridge Inspection Report

Photo Observations



East sill undermined up to 12" deep at south end

Bridge Inspection Report

Photo Observations



Clean all the sills

Bridge Inspection Report

Photo Observations



Clean deck.